



**Government of India**  
**Ministry of Earth Sciences**  
**India Meteorological Department**



**Press Release**

**Date: 20<sup>th</sup> November, 2025**

**Time of Issue: 1300 hours IST**

**Subject: (i) A Low Pressure area is likely to form over Southeast Bay of Bengal around 22<sup>nd</sup> and intensify into depression over central parts of south Bay of Bengal around 24<sup>th</sup> November 2025.**

**(ii) Heavy to very heavy rainfall very likely over Andaman & Nicobar Islands on 21<sup>st</sup> & 22<sup>nd</sup> November. Heavy rainfall very likely over Tamil Nadu during 21<sup>st</sup> -26<sup>th</sup>; over Kerala & Mahe during 21<sup>st</sup> – 23<sup>rd</sup>; over Coastal Andhra Pradesh & Yanam, Rayalaseema on 26<sup>th</sup>; over Andaman & Nicobar Islands on 20<sup>th</sup> & during 23<sup>rd</sup> -24<sup>th</sup> November.**

**(iii) Cold wave conditions likely to continue at isolated parts over West Madhya Pradesh on 21<sup>st</sup> & 22<sup>nd</sup> November.**

**Realised weather during past 24 hours ending at 0830 hours IST of today, the 20<sup>th</sup> November, 2025:**

- ❖ **Heavy to very heavy rainfall (11-20 cm) at isolated places with heavy to very heavy rainfall (7-20 cm) at few places over Tamil Nadu.**
- ❖ **Heavy rainfall (7-11 cm) observed at isolated places over Lakshadweep and Andaman & Nicobar Islands.**
- ❖ **Cold wave to severe cold wave conditions prevailed over few pockets of West Madhya Pradesh and Telangana; and at isolated places over Madhya Maharashtra.**
- ❖ **Dense Fog (50-200 m) conditions: at isolated places of Himachal Pradesh and Odisha.**

**Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):**

- ❖ Yesterday's **Low-Pressure area** over Lakshadweep Islands & adjoining Maldives area lay over southeast Arabian Sea & adjoining Lakshadweep area at 0830 hrs IST of today, the 21<sup>st</sup> November 2025. The associated cyclonic circulation extended upto middle tropospheric levels. It is likely to move slowly west-northwestwards during next 24 hours.
- ❖ An **upper air cyclonic circulation** lay over central parts of Strait of Malacca and extended upto middle tropospheric levels. Under its influence, a **Low Pressure area** is likely to form over Southeast Bay of Bengal around 22<sup>nd</sup> November 2025. Thereafter, it is very likely to move west-northwestwards and intensify into **depression** over central parts of south Bay of Bengal around 24<sup>th</sup> November 2025. Thereafter, it will very likely to continue to move west-northwestwards and intensify further over southwest Bay of Bengal during subsequent 48 hours.

**Under the influence of these systems, the following weather is likely:**

- ❖ Light to moderate rainfall/thunderstorm at many/some places with **isolated heavy rainfall** very likely over Tamil Nadu during 21<sup>st</sup> -26<sup>th</sup>; Kerala & Mahe during 21<sup>st</sup> – 23<sup>rd</sup>; Coastal Andhra Pradesh & Yanam, Rayalaseema on 26<sup>th</sup>; Andaman & Nicobar Islands on 20<sup>th</sup> & during 23<sup>rd</sup> -24<sup>th</sup> November; with isolated **very Heavy rainfall** over Andaman & Nicobar Islands on 21<sup>st</sup> & 22<sup>nd</sup> November.
- ❖ Thunderstorm with lightning very likely over Tamil Nadu and Kerala & Mahe during 21<sup>st</sup> -24<sup>th</sup>; Coastal Andhra Pradesh & Yanam and Rayalaseema during 22<sup>nd</sup> -24<sup>th</sup> and over Andaman & Nicobar Islands with gusty wind speeds reaching 40-50 kmph on 20<sup>th</sup> & 24<sup>th</sup> and with gusty wind speed reaching 50-60 kmph during 21<sup>st</sup> -23<sup>rd</sup> November.

**Temperature Conditions during past 24 hours till 0830 hours IST of today:**

- ❖ **Minimum temperatures** are in the range of **less than 6°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at few places over Himachal Pradesh; in the **range of 7-10°C** at many places over Punjab; at a few places over Haryana Chandigarh & Delhi, Madhya Maharashtra, Madhya Pradesh & Telangana; at isolated places over Uttarakhand & East Rajasthan. **The lowest minimum temperature of 7.5°C is reported at Rajgarh (West Madhya Pradesh) over the plains of India.**

- ❖ **Minimum** Temperature were below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh; at few places over Gujarat Region; at isolated places over Vidarbha. appreciably below normal (-5.0°C to -3.1°C) at most places over Marathwada; at few places over Telangana. The lowest minimum temperature of 10.4°C is reported at Kanpur/Chakeri (Uttar Pradesh), Ambikapur (Chhattisgarh), and Bidar (Karnataka) over the Plains of India. (refer to ANNEXURE IV)

#### Forecast of temperature and cold wave & cold day warnings:

- ❖ Gradual rise in minimum temperature likely by 2-4°C likely over Central India during next 4 days and no large change thereafter.
- ❖ No significant change in minimum temperature likely over plains of northwest India for next 24 hours and thereafter gradual fall by 2-3 °C during next 6 days.
- ❖ Gradual rise in minimum temperature likely by 2-4°C over West India for next 5 days and no large change thereafter.
- ❖ No large change in the minimum temperature likely over rest part of the country.
- ❖ **Cold wave conditions** at isolated parts over West Madhya Pradesh on 21<sup>st</sup> & 22<sup>nd</sup> November.

#### Fisherman Warning:

Fishermen are advised not to venture into the following areas during 20<sup>th</sup> November to 25<sup>th</sup> November:

##### ❖ Bay of Bengal:

Over Andaman Sea during 20<sup>th</sup> to 25<sup>th</sup> November; some parts of southeast Bay of Bengal on 20<sup>th</sup> November, many parts of southeast Bay of Bengal on 21<sup>st</sup> November; Over southeast Bay of Bengal on 22<sup>nd</sup>, 23<sup>rd</sup> & 24<sup>th</sup> November; few parts of eastcentral Bay of Bengal on 20<sup>th</sup> November; some parts of southwest Bay of Bengal on 22<sup>nd</sup> November, many parts of southwest Bay of Bengal on 23<sup>rd</sup> November, over southwest Bay of Bengal on 24<sup>th</sup> November, southern parts of central Bay of Bengal on 24<sup>th</sup> November; over Gulf of Mannar on 24<sup>th</sup> November.

#### ii) Weather conditions and forecast over Delhi/NCR during 20<sup>th</sup> -23<sup>rd</sup> November, 2025 (ANNEXURE III)

For more details, kindly refer National Weather Bulletin:

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php>

#### Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

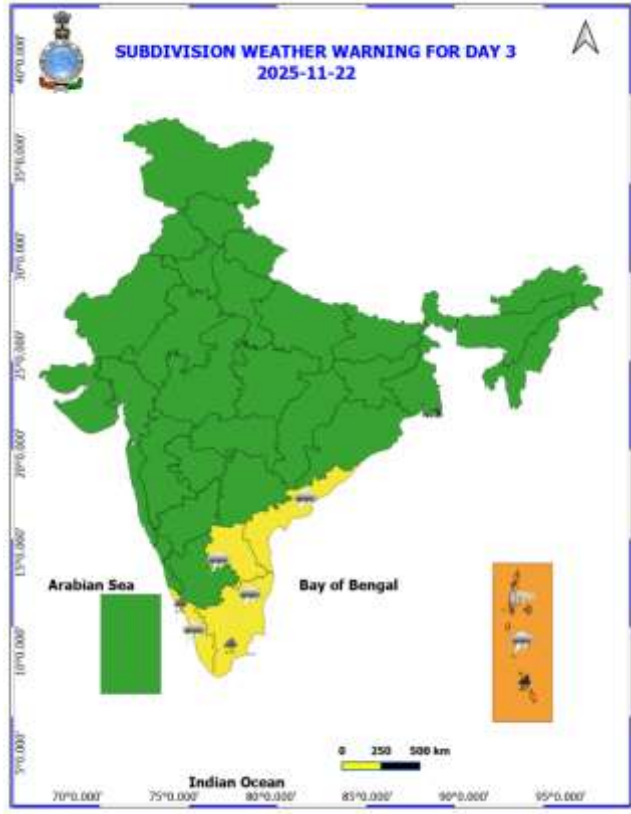
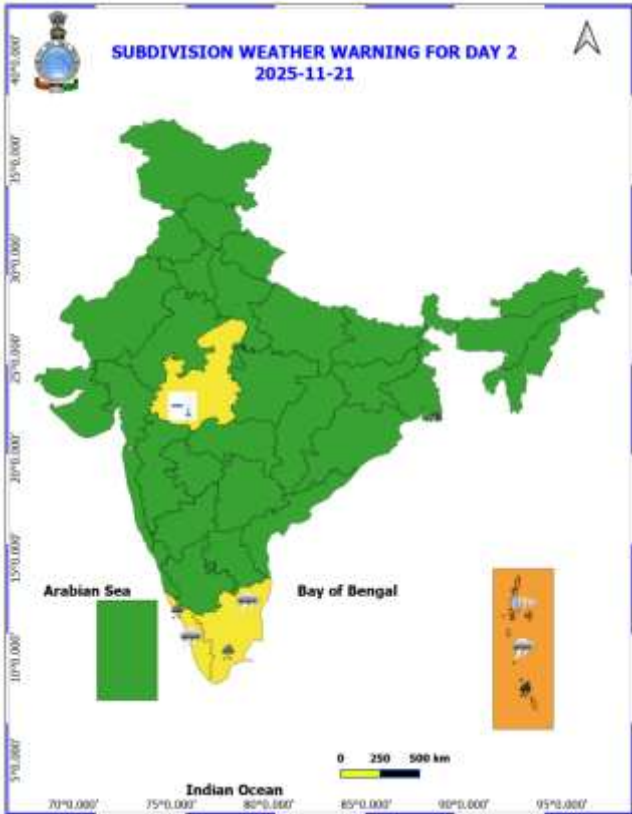
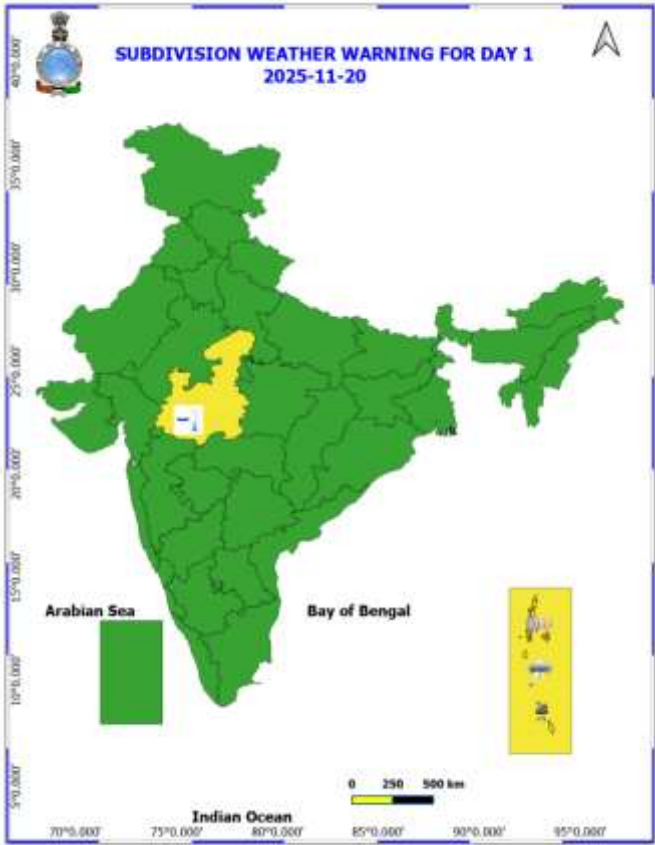
**Tamil Nadu, Puducherry & Karaikal:** Ayikudi (dist Tenkasi) 14; Thenkasi (dist Tenkasi) 12; Ambasamudram (dist Tirunelveli) 11; Kannadaian Anicut (dist Tirunelveli) 10; Tenkasi AWS (dist Tenkasi), Nalumukku (dist Tirunelveli), Oothu (dist Tirunelveli) 9 Each; Karuppanadhi Dam (dist Tenkasi), Kakkachi (dist Tirunelveli) 8 Each; Manjolai (dist Tirunelveli) 7;

**Andaman & Nicobar Islands:** Long Island (dist North & Middle Andaman) 8;

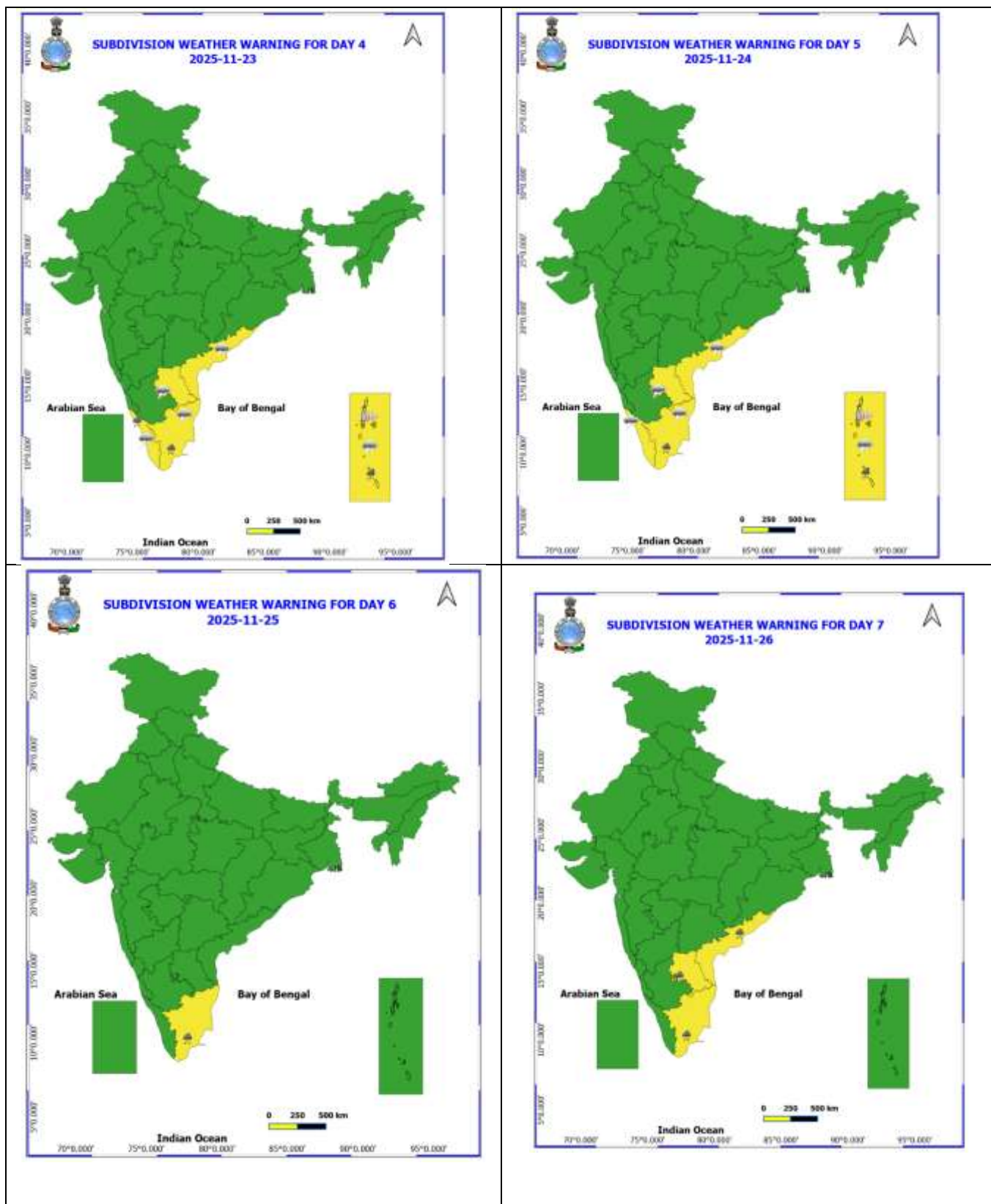
**Lakshadweep:** Minicoy (dist Lakshadweep) 7.

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	20- Nov	21- Nov	22- Nov	23- Nov	24- Nov	25- Nov	26- Nov
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA, CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	SCT
29	TELANGANA	DRY	DRY	ISOL	ISOL	ISOL	ISOL	DRY
30	RAYALASEEMA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
31	TAMILNADU & PUDUCHERRY	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
32	COSTAL KARNATAKA	DRY	ISOL	ISOL	SCT	SCT	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	ISOL	SCT	SCT	ISOL	DRY	DRY
35	KERALA AND MAHE	SCT	SCT	FWS	FWS	SCT	ISOL	ISOL
36	LAKSHADWEEP	SCT	SCT	SCT	SCT	SCT	SCT	SCT

- As the lead period increases forecast accuracy decrease.







- Action may be taken based on ORANGE AND REDCOLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed districtwise MultiHazard weather warning for next five days available at  
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

## Weather forecast over Delhi/NCR during 20<sup>th</sup> to 23<sup>rd</sup> November 2025

### Past Weather:

There has been rise in minimum and maximum temperatures by 01-02 °C during past 24 hours over Delhi. The maximum and minimum temperatures over Delhi were around 26 to 28 °C and 11 to 13°C respectively. The minimum temperatures are below normal (-1.6 to -3.0°C) at most places & normal (-1.5 to 1.5°C) at isolated places over Delhi. The maximum temperatures were appreciably below normal (-3.1 to -5.0) at isolated places normal (-1.5 to 1.5°C) at most places over Delhi. Smoke was reported at Safdarjung and Palam airport. Safdarjung airport recorded the lowest visibility 800m from 0730 Hrs IST to 0900 Hrs IST on 20.11.2025 which thereafter improved becoming 1000m at 1000 Hrs IST. Palam airport recorded the lowest visibility 800m from 0800 Hrs IST to 0900 Hrs IST on 20.11.2025 which thereafter improved becoming 900m at 0930 Hrs IST. Mainly clear sky conditions with predominant surface wind from the east direction with a wind speed up to 08 kmph prevailed during the past 24 hours. Mainly clear sky conditions with calm wind in early morning hours as gradually increase becoming up to 06 kmph from the variable direction prevailed over the region in the forenoon today.

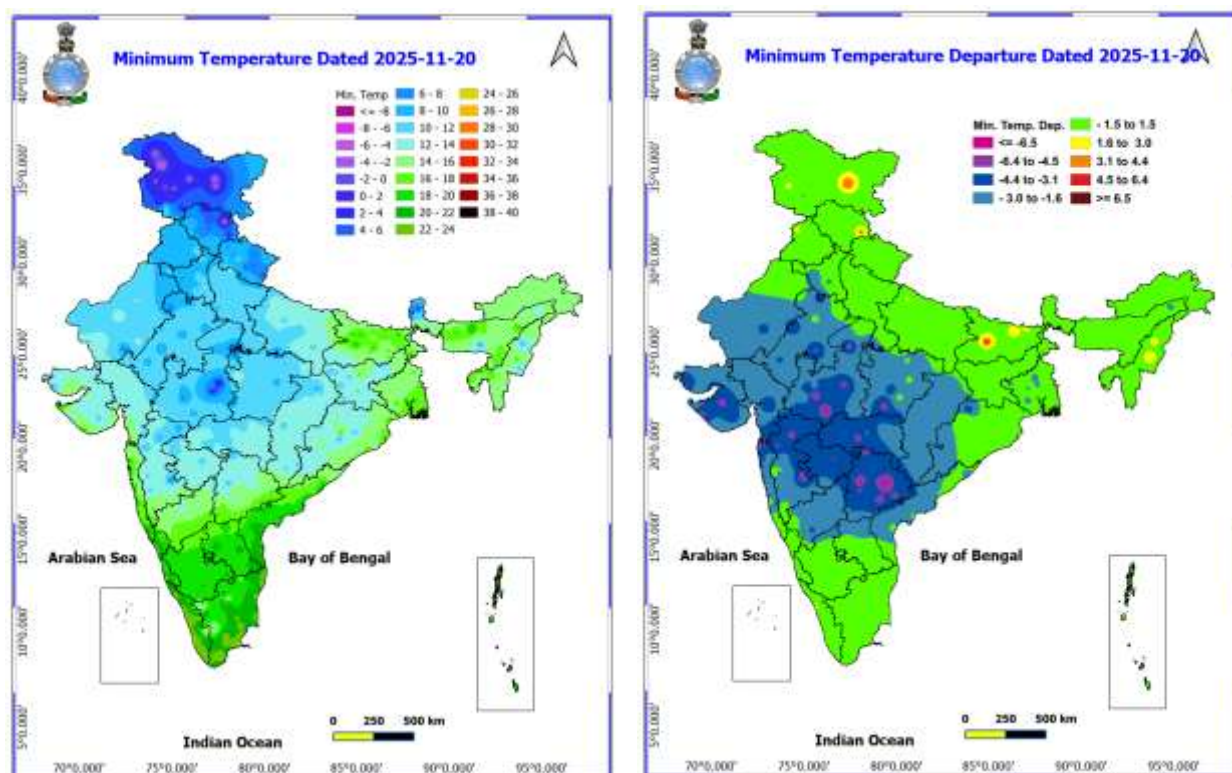
### Weather Forecast:

**20.11.2025:** Mainly clear sky. Mist/Haze during night. The maximum temperatures are likely to be in the range of 26 to 28°C. The maximum temperature will be near normal over the Delhi. The predominant surface wind will likely to be from the northwest direction with a wind speed of up to 05 kmph during afternoon hours. The wind speed will decrease becoming and less than 05 kmph from the northeast direction during the evening and night.

**21.11.2025:** Mainly clear sky. Shallow fog at most places and moderate fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 26 to 28°C and 11 to 13°C respectively. The minimum temperatures will be near normal and maximum temperature will be near normal over Delhi. The predominant surface wind will likely to be from the southeast direction with a wind speed of up to 05 kmph during morning hours. The wind speed will remain same up to 05 kmph from the north direction in the afternoon. The wind speed will remain same up to than 05 kmph from the north direction during the evening and night.

**22.11.2025:** Mainly clear sky. Shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 25 to 27°C and 10 to 12°C respectively. The minimum temperatures will be near normal and the maximum temperature will be near normal over Delhi. The predominant surface wind will likely to be from the west direction with calm wind as gradually increase becoming up to 05 kmph during morning hours. The predominant surface wind will likely to be from the northwest direction with calm wind as gradually increase and becoming up to 10 kmph during afternoon. The wind speed will decrease becoming less than 05 kmph from the north direction during the evening and night.

**23.11.2025:** Mainly clear sky. Shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 25 to 27°C and 09 to 11°C respectively. The minimum temperatures will be below normal (-0.3 to -2.3°C) and the maximum temperature will be near normal over Delhi. The predominant surface wind will likely to be from the west direction with calm wind as gradually increase becoming up to 05 kmph during morning hours. The predominant surface wind will likely to be from the northwest as gradually increase and becoming up to 10 kmph during afternoon. The wind speed will decrease becoming less than 05 kmph from the north direction during the evening and night.



### Impact & Action Suggested due to

- ❖ Isolated **very Heavy rainfall likely** over Andaman & Nicobar Islands on 22<sup>nd</sup> & 23<sup>rd</sup> November.

#### Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutchha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

#### Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

## Agromet advisories for likely impact of Heavy Rainfall

### Agromet advisories for likely impact of Heavy Rainfall

- In **Tamil Nadu**, keep the harvested produce of rice and groundnut crops in safe places. Drain out excess rain water from fields of rice, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, cinnamon and black pepper. Provide support to banana plants with wooden poles to prevent them from falling.
- In **Kerala**, drain out excess rain water from fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana plants to prevent falling due to heavy rainfall and strong winds.
- In **Andaman and Nicobar Islands**, store the harvested produce of rice in well-covered elevated places to prevent moisture damage. Harvest matured vegetables to avoid damage and provide support to banana, papaya and other tall crops with stakes to prevent lodging. Avoid sowing of pulses and oilseed crops during heavy rainfall. Protect young seedlings in nursery using temporary rain shelters or plastic covers.

### Livestock / Fishery

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

### Agromet advisories for likely impact of Cold Waves / Low Temperatures

- In **Madhya Pradesh, Madhya Maharashtra and Telangana**, apply light and frequent irrigation to the standing crops in the evening to protect the crops from low temperature stress or cold injuries. Use mulching and cover vegetable nurseries and young fruit plants with straw / polythene sheets to maintain optimum soil temperature. Cover banana bunches with 6% perforated plastic bags for protection from low temperatures.

### Livestock / Poultry

- Keep cattle inside the sheds during night and provide dry bedding to protect them from cold.
- Keep the chicks warm by providing artificial light in the poultry sheds.

### Legends & abbreviations:

- ❖ **Heavy Rain:** 64.5-115.5mm; **Very Heavy Rain:** 115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **Automatic Weather Station;** **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
  - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
  - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
  - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
  - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.



- **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
- **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह

2. अरुणाचल प्रदेश

3. असम और मेघालय

4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा

5. उप-हिमालयी पश्चिम बंगाल और सिक्किम

6. गंगीय पश्चिम बंगाल

7. ओडिशा

8. झारखंड

9. बिहार

10. पूर्वी उत्तर प्रदेश

11. पश्चिम उत्तर प्रदेश

12. उत्तराखंड

13. हरियाणा, चंडीगढ़ और दिल्ली

14. पंजाब

15. हिमाचल प्रदेश

16. जम्मू और कश्मीर और लद्दाख

17. पश्चिम राजस्थान

18. पूर्वी राजस्थान

19. पश्चिम मध्य प्रदेश

20. पूर्वी मध्य प्रदेश

21. गुजरात

22. सौराष्ट्र

23. कोंकण और गोवा

24. मध्य महाराष्ट्र

25. मराठवाड़ा

26. विदर्भ

27. छत्तीसगढ़

28. तटीय आंध्र प्रदेश और यनम

29. तेलंगाना

30. रायलसीमा

31. तमिलनाडु, पुडुचेरी और कराईकल

32. तटीय कर्नाटक

33. आंतरिक उत्तरी कर्नाटक

34. आंतरिक दक्षिणी कर्नाटक

35. केरल और माहे

36. लक्षद्वीप



1. Andaman & Nicobar Islands

2. Arunachal Pradesh

3. Assam & Meghalaya

4. Nagaland, Manipur, Mizoram & Tripura

5. Sub-Himalayan West Bengal & Sikkim

6. Gangetic West Bengal

7. Odisha

8. Jharkhand

9. Bihar

10. East Uttar Pradesh

11. West Uttar Pradesh

12. Uttarakhand

13. Haryana, Chandigarh & Delhi

14. Punjab

15. Himachal Pradesh

16. Jammu & Kashmir and Ladakh

17. West Rajasthan

18. East Rajasthan

19. West Madhya Pradesh

20. East Madhya Pradesh

21. Gujarat

22. Saurashtra

23. Konkan & Goa

24. Madhya Maharashtra

25. Marathwada

26. Vidarbha

27. Chhattisgarh

28. Coastal Andhra Pradesh & Yanam

29. Telangana

30. Rayalaseema

31. Tamilnadu, Puducherry & Karaikal

32. Coastal Karnataka

33. North Interior Karnataka

34. South Interior Karnataka

35. Kerala & Mahe

36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

### COLOUR CODED WARNING

No Warning (No Action)

Watch (Be Aware)

Alert (Be Prepared To Take Action)

Warning (Take Action)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)

## DEFINITION/CRITERIA

### Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm \*  
Extremely Heavy: > 204.4 mm/cm \*

### Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$ .

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$ .

### Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .

### Cold Wave

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$

### Cold Day

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

### Fog

Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres

### Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

### Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

### Frost

Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)

### Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-67 kmph

Very Severe: Wind speed  $> 67$  kmph

### Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre

### Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

(Service to the Nation since 1875)